Tests performed on the Filecatalog.cdf2_files (DFC) and data_files (SAM) tables

Preliminary tests on meta data integrity

1. DFC table – Filecatalog.runsection_ranges Run_number_low = Run_number_high
2. DFC/SAM table – filecatalog.cdf2_runsections ID = encoded word (Run # and run section # [section in lowest 2 bytes])

Tests required for identifying the data

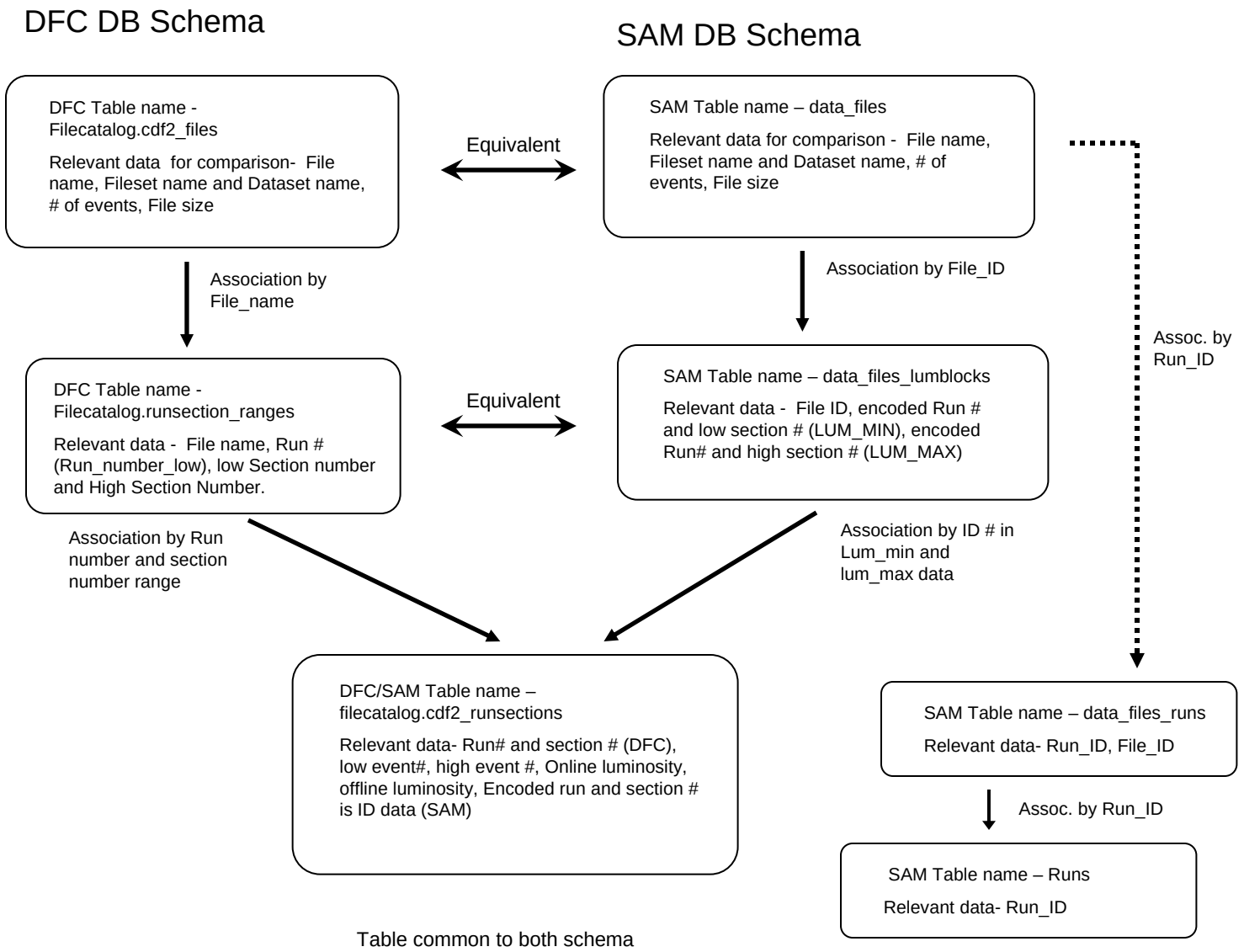
1. Check for files not in SAM tables but in DFC
2. For a given file in both SAM and DFC tables:
   - Test Fileset equality in DFC and SAM
   - Test Dataset equality in DFC and SAM

Tests on data file information

1. Check the # of events per file in DFC and SAM
2. Check the file size in DFC and SAM

Tests on run section information

1. Determine list of run and sections associated with the file. Compare DFC list and SAM list for equality



*** - Note:**

Run type in SAM is not checked. The reason is that the DFC Table filecatalog.cdf2_dataset_registries contains incorrect data_type values.

SAM Test on Run # and run section information*

Check that the list of run and sections associated with a given run are consistent .